



Cambria Environmental Technology, Inc.  
270 Perkins Street  
Sonoma, California 95476  
Telephone: (707) 935-4850  
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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	S-28
JOB/SITE NAME	Shell-branded Service Station	DRILLING STARTED	05-Oct-04
LOCATION	2005 Guerneville Road, Santa Rosa, CA	DRILLING COMPLETED	11-Oct-04
PROJECT NUMBER	0815	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10" and 14"	SCREENED INTERVAL	32 to 42 fbg
LOGGED BY	S. Lewis	DEPTH TO WATER (First Encountered)	18.5 ft (06-Oct-04)
REVIEWED BY	J. Neely, RG 6927	DEPTH TO WATER (Static)	NA
REMARKS	A 12.25" steel conductor casing was installed from 1 to 31 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					GW		<b>ASPHALT</b>	0.3	
					SM		<b>Sandy GRAVEL (GW)</b> ; grayish brown (2.5Y 5/2); dry; 40% fine to coarse sand; 60% fine to coarse gravel.	1.0	
							<b>Silty Gravelly SAND (SW)</b> ; grayish brown (2.5Y 5/2); moist; 5% clay, 15% silt, 60% fine to coarse sand, 20% fine to coarse gravel.	4.0	
0.0	4 5 7			5	ML		<b>Clayey Sandy SILT (ML)</b> ; grayish brown (2.5Y 5/2); moist; 20% clay, 60% silt, 20% fine to coarse sand; low plasticity. @ 5' - stiff.	7.5	
91	7 10 11			10	SM		<b>Clayey Silty Gravelly SAND (SM)</b> ; very dark gray (5Y 3/1); medium dense; moist; 15% clay, 30% silt, 40% fine to coarse sand, 15% fine to coarse gravel.	12.0	
38.7	8 11 13			15	ML		<b>Clayey SILT (ML)</b> ; olive brown (2.5Y 4/3); very stiff; moist; 20% clay, 75% silt, 5% fine to coarse sand; low plasticity.	17.0	
39.7	22 28 25			20	SW		<b>Gravelly SAND (SW)</b> ; olive brown (2.5Y 4/3); very dense; wet; 5% clay, 10% silt, 70% fine to coarse sand, 15% fine gravel.	22.0	
0.0	7 6 6			25	ML		<b>Clayey Sandy SILT (ML)</b> ; dark grayish brown (2.5Y 4/2); stiff; moist; 15% clay, 60% silt, 25% fine to coarse sand; low plasticity.		
0.0	6 6 6			30			@ 28.5' - <b>Clayey Sandy SILT (ML)</b> ; dark grayish brown (2.5Y 4/2); stiff; moist; 75% silt, 25% fine sand.		
0.0	3 4 6			30			@ 30' - <b>Clayey SILT (ML)</b> ; light olive brown (2.5Y 5/4); stiff; moist; 20% clay, 75% silt, 5% fine sand; low plasticity.		
				35				33.0	 Portland Type I/II Bentonite Seal Monterey Sand #2/12

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	SOIL DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
1.2	12 20 18				SW		<b>Gravelly SAND (SW)</b> ; dark yellowish brown (10YR 4/6); medium dense; moist to wet; 10% clay, 10% silt, 60% fine to coarse sand; 20% coarse gravel. @ 36.5' - dense; wet.		
1.2	12 13 14						@ 38' - olive brown (2.5Y 4/4); medium dense; 10% clay, 15% silt, 50% fine to coarse sand, 25% fine to coarse gravel.		
2.0	18 21 22			40			@ 39.5' - dense.	41.0	
	15 50-4"				ML		<b>Clayey Sandy SILT (ML)</b> ; olive brown (2.5Y 4/3); hard; wet; 20% silt, 55% fine sand, 25% medium sand; moderate plasticity.		
								44.5	

4"-diam., 0.020" Slotted Schedule 40 PVC

Bentonite Seal

Bottom of Boring @ 44.5 ft